



An Intensive Graduate Course in Cell and Molecular Biology Biology 635—Special Topics in Cell Biology II

DNA Repair

August 24—September 4, 1981

Instructor:

Dr. Norman E. Gentner,
Radiation Biology Branch,
Atomic Energy of
Canada Ltd.,
Chalk River Nuclear
Laboratories

This course will describe the mechanisms of repair of damage included in DNA of both prokaryotic and eukaryotic cells by ultra-violet and ionizing radiation as well as by selected chemical mutagens. Emphasis will be given to the methodology of studying each type of DNA repair. The role of DNA repair deficiency in mutagenesis and human genetic disorders will be discussed. The kinetics of DNA repair will be considered in relation to cellular radiosensitivity, recovery of irradiated cells and cytogenetic aberrations.

Schedule:

August 24—September 4, 1981

Lectures Mon–Fri 10:00–12:15

Discussion Groups: Tue. Thu. 14:00–16:00

This graduate course, Biology 635/1, FZ (4 credits, 30 contact hours) is open to anyone interested in this subject with an appropriate background in molecular biology, biochemistry or radiation biology. It may be taken for credit or audited.

Tuition Fees:

a) graduate students currently enrolled in any Quebec university and using the cross-registration procedure \$40.00 (\$10.00/credit), plus incidental fees (Canadian and landed immigrant students only).

b) anyone else may register as an independent student \$80.00 (\$20.00/credit).

c) holders of a student visa are charged \$200.00 (\$50.00/credit), plus incidental fees.

d) anyone wishing to attend this course as an auditor should contact Dr. Roy for information.



Registration:

Registration for formal credit is limited to 20 students and must be completed by August 7, 1981. Requests for application forms and additional information should be addressed to:

Dr. R.M. Roy, Chairman,
Dept. of Biology,
Concordia University,
1455 de Maisonneuve Ave.,
Montreal, Que. H3G 1M8
Telephone: (514) 879-7233

Dr. Gentner is Associate Research Officer, Health Sciences Division, A.E.C.L., Chalk River Nuclear Laboratories. Dr. Gentner has been active in radiobiological research, particularly with respect to DNA repair for the last decade. In particular, he has been studying the correlation of biochemical and biophysical measurements of DNA repair at the molecular level with microbiological end-points such as survival, recovery and mutation. Most recently, his research has dealt with recombination, especially sister chromatid exchange recombination repair of radiation—and chemically-induced DNA lesions.